

M-OLDOSA:

Multimodal analysis and m-Health tools for diagnostic and monitoring improving of Obstructive Lung Disease and Obstructive Sleep Apnea patients

ADRESSED PATHOLOGY: Respiratory diseases / SAOS, EPOC, Asthma

GENERAL OBJECTIVE:

The project proposes a multimodal approach and m-Health tools for the diagnosis and follow-up of common sleep disorders and pulmonary diseases. The activity of the autonomic nervous system in Obstructive Sleep Apnea is monitored through Heart Rate Variability indexes while the respiratory muscle strength is evaluated through electro- and mechano-myography or respiratory sounds, to assess the severity of Chronic Obstructive Pulmonary Disease, for example. The project will also establish significant correlations between parasympathetic indices, lung function and inflammatory phenotypes in asthmatic patients.

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